A. Identification a	and Coding Inform	nation	2. Date: October 1, 1999	7. Pre PDF Pg.No.: 8. Req. Adeq. Pub. Fac			
Project Number Agency Number Update Code							
973837	W-172.04	Change	Revised:				
3. Project Name: 1	Patuxent Water Tr	eatment Implementa	ation	5.Agency:	WSSC		
4. Program:	Sanitation (6. Planning Area:	Bi-County				
j		-					

B.		E	xpenditu	ire Sched	lule (000':	s)					
	(8)	(9) Thru	(10) Estimate	(11) Total	(12) Year 1	(13) Year 2	(14) Year 3	(15) Year 4	(16) Year 5 FY '05	(17) Year 6 FY '06	(18) Beyond 6 Years
Cost Elements Planning Design & Supervision	Total 8,082	FY '99 4.500	FY '00 200	6 Years 3,382	FY '01 800	FY '02 800	FY '03 700	FY '04 700	382	F1 00	o <u>reals</u>
Land											
Site Improvements & Utilities											
Construction	48,400		1,458	46,942	12,200	17,300	7,600	9,200	642		
Other	5,198		166	5,032	1,300	1,810	830	990	102		
Total	61,680	4,500	1,824	55,356	14,300	19,910	9,130	10,890	1,126		

C. Funding Schedule (000's)											
WSSC Bonds	61,680	4,500	1,824	55,356	14,300		9,130	10,890	1,126		

D. Description & Justification

DESCRIPTION

The purpose of this project is to replace the existing Patuxent Water Filtration Plant with a new facility. This will provide for the project design and construction of facilities necessary to insure continued water treatment capabilities from the Patuxent River. This project includes construction of an advanced conventional water treatment plant on the existing site with discharge of residuals to the Parkway Wastewater Treatment Plant. This project is divided into two phases, with Phase 1 of the project providing for a new plant with 56 MGD of nominal treatment capacity and the capability to provide emergency capacity up to approximately 72 MGD. The second phase includes an additional 16 MGD of nominal treatment capacity and the ability to provide 120 MGD of emergency capacity. The project funding shown above in Block "B" provides for only Phase 1, as well as funds necessary for plant modifications that will allow Phase 2 of the project to be constructed without retrofitting the first phase portion of the plant, and for the purchase of an additional right-of-way, if needed, to accommodate the future construction of a new raw water pipeline from the Rocky Gorge Reservoir to the existing plant. Phase 2 of the project is primarily needed to provide additional emergency reliability (redundancy) to the water distribution system. If in future years, a decision is made that Phase 2 is necessary, additional funds can be provided at that time.

Service Area Bi-County Area

Capacity 56 MGD

Population 560,000

JUSTIFICATION

Plans & Studies

Patuxent Water Filtration Plant Rehabilitation Study, MCA Engineering Corp., September 1976; A Comprehensive Long-Range Macro-Level Analysis of the WSSC Water Supply and Wastewater Systems, WSSC, 1990; General Plan; and Patuxent WTP Facility Plan, O'Brien & Gere Engineers, Inc., April 1997.

Specific Data

The original filter unit for the Patuxent WFP was put into service in 1944. Expansion projects in 1951 and 1955 brought the treatment capacity to the present level. The aged plant is vulnerable to deterioration which could jeopardize a critical component of the water system and a significant amount of water treatment capacity for the WSSD.

Cost increase Not applicable.

STATUS

Final Design (WSSC Contract No. BF1582A91).

I∩THER

The project scope has remained the same. Costs are based on budget level estimates for the scope described above. Costs reflect the use of the current treatment plant site. The principal purpose of this project is replacement of a critical component of the water system.

E. Annual Opera	FY of Impact			
Program Costs	Staff	-306		5
1 logram ocolo	Other	-56		5
Facility Costs	Maintenance	-592		5
•	Debt Service	5693		98
Total Costs	4739		06	
Impact on Water	or Sewer Rate	10¢		07

F. Approval	and	Expenditure	Data	(000's)

ļ	r. Approval and Expenditure Data (C	003)
	Date First in Capital Program	FY 97
	Date First Approved	FY 97
	Initial Cost Estimate	164,905
	Cost Estimate Last FY	61,263
	Present Cost Estimate	61,680
	Approved Request, Last FY	1,824
	Total Expenditures & Encumbrances	4,547
j	Approval Request FY 01	14,300
	Supplemental Approval Request Current FY (00)	0

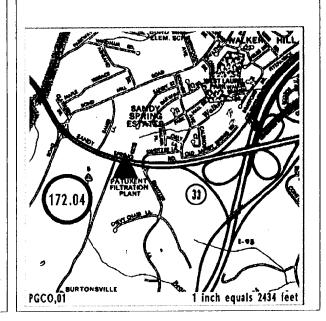
G. Status Information

Right-of-Way may be required Land Status:

D-99% % Project Completion:

Est. Completion Date: January, 2005

Н. Мар Map Reference Code:



DESCRIPTION & JUSTIFICATION (CONT.)

oncy Number: W-172.04

Project Name: Patuxent Water Treatment Implementation

Support for growth will be in the increase from 56 mgd to the ultimate 72 mgd capacity. Land costs are included in WSSC Project W-202.00.

COORDINATION

Montgomery County Government, Prince George's County Government, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, Interstate Commission on the Potomac River Basin and WSSC Project W-172.03, Consolidated Laboratory Facility.

NOTE

This project supports 100% System Improvement.